NEUROPHARMACOLOGY

CONTENTS OF VOLUME 43

NUMBER 1

M. Mackowiak, M.J. O'Neill, C.A. Hicks, D. Bleakman, P. Skolnick	An AMPA receptor potentiator modulates hippocampal expression of BDNF: an in vivo study	1
B.J. Van Sickle, E.I. Tietz	Selective enhancement of AMPA receptor-mediated function in hippocampal CA1 neurons from chronic benzodiazepine-treated rats	11
S. Ahlenius, M. Oprica, C. Eriksson, B. Winblad, M. Schultzberg	Effects of kainic acid on rat body temperature: unmasking by dizocilpine	28
M.J. Duncan, J.G. Hensler	Aging alters in a region-specific manner serotonin transporter sites and 5-HT_{1A} receptor-G protein interactions in hamster brain	36
L.D. Van de Kar, D.K. Raap, G. Battaglia, N.A. Muma, F. Garcia, L.L. DonCarlos	Treatment of cycling female rats with fluoxetine induces desensitization of hypothalamic 5-HT_{1A} receptors with no change in 5-HT_{2A} receptors	45
J.Y.F. Wong, S.A. Ross, C. McColl, J.S. Massalas, E. Powney, D.I. Finkelstein, M. Clark, M.K. Horne, S.F. Berkovic, J. Drago	Proconvulsant-induced seizures in α_4 nicotinic acetylcholine receptor subunit knockout mice	55
I. Garbus, A.M. Roccamo, F.J. Barrantes	Identification of threonine 422 in transmembrane domain αM4 of the nicotinic acetylcholine receptor as a possible site of interaction with hydrocortisone	65
R.J. Tyacke, E.S.J. Robinson, D.J. Nutt, A.L. Hudson	5-Isothiocyanato-2-benzofuranyl-2-imidazoline (BU99006) an irreversible $imidazoline_2$ binding site ligand: in vitro and in vivo characterisation in rat brain	75
O. Pierrefiche, F. Maniak, N. Larnicol	Rhythmic activity from transverse brainstem slice of neonatal rat is modulated by nitric oxide	85
K.K. Søby, J.D. Mikkelsen, E. Meier, C. Thomsen	Lu 28-179 labels a σ_2-site in rat and human brain	95
M.E. Keck, T. Welt, M.B. Müller, A. Erhardt, F. Ohl, N. Toschi, F. Holsboer, I. Sillaber	Repetitive transcranial magnetic stimulation increases the release of dopamine in the mesolimbic and mesostriatal system	101
C. Kopp, J.-M. Petit, P. Magistretti, A.A. Borbély, I. Tobler	Comparison of the effects of modafinil and sleep deprivation on sleep and cortical EEG spectra in mice	110

NUMBER 2

4th International Meeting on Metabotropic Glutamate Receptors

A. Cozzi, E. Meli, V. Carlà, R. Pellicciari, F. Moroni, D.E. Pellegrini-Giampietro	Metabotropic glutamate 1 (mGlu1) receptor antagonists enhance GABAergic neurotransmission: a mechanism for the attenuation of post-ischemic injury and epileptiform activity?	119
C. Lanneau, M.H. Harries, A.M. Ray, S.R. Cobb, A. Randall, C.H. Davies	Complex interactions between mGluR1 and mGluR5 shape neuronal network activity in the rat hippocampus	131
S.J. Thuault, C.H. Davies, A.D. Randall, G.L. Collingridge	Group I mGluRs modulate the pattern of non-synaptic epileptiform activity in the hippocampus	141
M.J. Marino, H. Awad-Granko, K.J. Ciombor, P.J. Conn	Haloperidol-induced alteration in the physiological actions of group I mGlus in the subthalamic nucleus and the substantia nigra pars reticulata	147
L.R. Orlando, A.W. Dunah, D.G. Standaert, A.B. Young	Tyrosine phosphorylation of the metabotropic glutamate receptor mGluR5 in striatal neurons	161
P.R. Moult, R. Schnabel, I.C. Kilpatrick, Z.I. Bashir, G.L. Collingridge	Tyrosine dephosphorylation underlies DHPG-induced LTD	175
A. Pilc, A. Kłodzińska, P. Brański, G. Nowak, A. Pałucha, B. Szewczyk, E. Tatarczyńska, E. Chojnacka-Wójcik, J.M. Wierońska	Multiple MPEP administrations evoke anxiolytic- and antidepressant-like effects in rats	181
R.X. Moldrich, K. Apricó, S. Diwakarla, R.D. O'Shea, P.M. Beart	Astrocyte $mGlu_{2/3}$-mediated cAMP potentiation is calcium sensitive: studies in murine neuronal and astrocyte cultures	189
G. Riedel, N.R. Harrington, A.P. Kozikowski, K. Sandager-Nielsen, E.M. Macphail	Variation of CS salience reveals group II mGluR-dependent and -independent forms of conditioning in the rat	205
J.N.C. Kew, M.-C. Pflimlin, J.A. Kemp, V. Mutel	Differential regulation of synaptic transmission by mGlu2 and mGlu3 at the perforant path inputs to the dentate gyrus and CA1 revealed in mGlu2 -/- mice	215

J. Zhai, M.T. Tian, Y. Wang, J.L. Yu, A. Köster, M. Baez, E.S. Nisenbaum	Modulation of lateral perforant path excitatory responses by metabotropic glutamate 8 (mGlu8) receptors	223
C.A. Pothecary, D.E. Jane, T.E. Salt	Reduction of excitatory transmission in the retino-collicular pathway via selective activation of mGlu8 receptors by DCPG	231
R. Gerlai, B. Adams, T. Fitch, S. Chaney, M. Baez	Performance deficits of mGluR8 knockout mice in learning tasks: the effects of null mutation and the background genotype	235
A.-M. Linden, B.G. Johnson, S.C. Peters, H.E. Shannon, M. Tian, Y. Wang, J.L. Yu, A. Köster, M. Baez, D.D. Schoepp	Increased anxiety-related behavior in mice deficient for metabotropic glutamate 8 (mGlu8) receptor	251
M.J. Messenger, L.G. Dawson, S. Duty	Changes in metabotropic glutamate receptor 1-8 gene expression in the rodent basal ganglia motor loop following lesion of the nigrostriatal tract	261
	Abstracts	273

NUMBER 3

S. Dolan, A.M. Nolan	Behavioral evidence supporting a differential role for spinal group I and II metabotropic glutamate receptors in inflammatory hyperalgesia in sheep	319
P. Mascias, M. Scheede, P. Bloms-Funke, B.A. Chizh	Modulation of spinal nociception by GluR5 kainate receptor ligands in acute and hyperalgesic states and the role of gabaergic mechanisms	327
C. Scheidt, A.R.S. Santos, J. Ferreira, A. Malheiros, V. Cechinel-Filho, R.A. Yunes, J.B. Calixto	Evidence for the involvement of glutamatergic receptors in the antinociception caused in mice by the sesquiterpene drimanial	340
J.M. Witkin, M. Gasior, C. Schad, A. Zapata, T. Shippenberg, T. Hartman, B.S. Slusher	NAALADase (GCP II) inhibition prevents cocaine-kindled seizures	348
D.S. Kerr, A. Razak, N. Crawford	Age-related changes in tolerance to the marine algal excitotoxin domoic acid	357
D. Yan, M.M. White	Interaction of *d*-tubocurarine analogs with mutant 5-HT_3 receptors	367
R. Zwart, G. De Filippi, L.M. Broad, G.I. McPhie, K.H. Pearson, T. Baldwinson, E. Sher	5-Hydroxyindole potentiates human α7 nicotinic receptor-mediated responses and enhances acetylcholine-induced glutamate release in cerebellar slices	374
K.E. Culver, J.M. Rosenfeld, H. Szechtman	Monoamine oxidase inhibitor-induced blockade of locomotor sensitization to quinpirole: role of striatal dopamine uptake inhibition	385
S.M. Cochran, C.E. McKerchar, B.J. Morris, J.A. Pratt	Induction of differential patterns of local cerebral glucose metabolism and immediate-early genes by acute clozapine and haloperidol	394
J.-J. Choi, M.Y. Kong, S.J. Lee, H.-C. Kim, K.H. Ko, W.-K. Kim	Ciclopirox prevents peroxynitrite toxicity in astrocytes by maintaining their mitochondrial function: a novel mechanism for cytoprotection by ciclopirox	408
C.F. Chang, M. Morales, J. Chou, H.L. Chen, B. Hoffer, Y. Wang	Bone morphogenetic proteins are involved in fetal kidney tissue transplantation-induced neuroprotection in stroke rats	418
A. Tortiglione, M. Minale, G. Pignataro, S. Amoroso, G. DiRenzo, L. Annunziato	The 2-oxopyrrolidinacetamide piracetam reduces infarct brain volume induced by permanent middle cerebral artery occlusion in male rats	427
E. Shimizu, K. Hashimoto, N. Komatsu, M. Iyo	Roles of endogenous glutathione levels on 6-hydroxydopamine-induced apoptotic neuronal cell death in human neuroblastoma SK-N-SH cells	434
K. Matthias, G. Seifert, S. Reinhardt, C. Steinhäuser	Modulation of voltage-gated K^+ channels Kv1.1 and Kv1.4 by forskolin	444
J. Savidge, C. Davis, K. Shah, S. Colley, E. Phillips, S. Ranasinghe, J. Winter, P. Kotsonis, H. Rang, P. McIntyre	Cloning and functional characterization of the guinea pig vanilloid receptor 1	450
N. Galeotti, A. Bartolini, C. Ghelardini	Inactivation of Gi proteins induces an antidepressant-like effect in the mouse forced-swimming test	457

NUMBER 4

$GABA_A$ Receptors in Cellular and Network Excitability

P.A. Davies, M.R. McCartney, W. Wang, T.G. Hales, E.F. Kirkness	Alternative transcripts of the $GABA_A$ receptor ε subunit in human and rat	467
J. Nymann-Andersen, H. Wang, R.W. Olsen	Biochemical identification of the binding domain in the $GABA_A$ receptor-associated protein (GABARAP) mediating dimer formation	476
I. Sarto, L. Wabnegger, E. Dögl, W. Sieghart	Homologous sites of $GABA_A$ receptor α_1, β_3 and γ_2 subunits are important for assembly	482

M.T. Bianchi, K.F. Haas, R.L. Macdonald	α1 and γ6 subunits specify distinct desensitization, deactivation and neurosteroid modulation of $GABA_A$ receptors containing the δ subunit	492
N. Hájos, T.F. Freund	Pharmacological separation of cannabinoid sensitive receptors on hippocampal excitatory and inhibitory fibers	503
I. Aradi, V. Santhakumar, K. Chen, I. Soltesz	Postsynaptic effects of GABAergic synaptic diversity: regulation of neuronal excitability by changes in IPSC variance	511
G. Maccaferri, R. Dingledine	Complex effects of CNQX on CA1 interneurons of the developing rat hippocampus	523
W. Wisden, D. Cope, T. Klausberger, B. Hauer, S.T. Sinkkonen, V. Tretter, R. Lujan, A. Jones, E.R. Korpi, I. Mody, W. Sieghart, P. Somogyi	Ectopic expression of the $GABA_A$ receptor α6 subunit in hippocampal pyramidal neurons produces extrasynaptic receptors and an increased tonic inhibition	530
N. Varma, D.H. Brager, W. Morishita, R.A. Lenz, B. London, B. Alger	Presynaptic factors in the regulation of DSI expression in hippocampus	550
M. Uusisaari, S. Smirnov, J. Voipio, K. Kaila	Spontaneous epileptiform activity mediated by $GABA_A$ receptors and gap junctions in the rat hippocampal slice following long-term exposure to $GABA_B$ antagonists	563
Z. Nusser	Release-independent short-term facilitation at GABAergic synapses in the olfactory bulb	573
S.C. Harney, M.V. Jones	Pre- and postsynaptic properties of somatic and dendritic inhibition in dentate gyrus	584
B.J. Van Sickle, A.S. Cox, K. Schak, L. John Greenfield Jr., E.I. Tietz	Chronic benzodiazepine administration alters hippocampal CA1 neuron excitability: NMDA receptor function and expression[1]	595
A. Barberis, E.M. Petrini, E. Cherubini, J.W. Mozrzymas	Allosteric interaction of zinc with recombinant $\alpha_1\beta_2\gamma_2$ and $\alpha_1\beta_2$ $GABA_A$ receptors	607
P. Yang, B.L. Jones, L.P. Henderson	Mechanisms of anabolic androgenic steroid modulation of $\alpha_1\beta_3\gamma_{2L}$ $GABA_A$ receptors	619
K.L. McIntyre, D.M. Porter, L.P. Henderson	Anabolic androgenic steroids induce age-, sex-, and dose-dependent changes in $GABA_A$ receptor subunit mRNAs in the mouse forebrain	634
S. Vicini, G. Losi, G.E. Homanics	$GABA_A$ receptor δ subunit deletion prevents neurosteroid modulation of inhibitory synaptic currents in cerebellar neurons	646
D. Belelli, A. Casula, A. Ling, J.J. Lambert	The influence of subunit composition on the interaction of neurosteroids with $GABA_A$ receptors	651
S.A. Thompson, T.P. Bonnert, E. Cagetti, P.J. Whiting, K.A. Wafford	Overexpression of the $GABA_A$ receptor ε subunit results in insensitivity to anaesthetics	662
A. Jenkins, A. Andreasen, J.R. Trudell, N.L. Harrison	Tryptophan scanning mutagenesis in TM4 of the $GABA_A$ receptor α1 subunit: implications for modulation by inhaled anesthetics and ion channel structure	669
F. Crestani, R. Assandri, M. Täuber, J.R. Martin, U. Rudolph	Contribution of the α1-$GABA_A$ receptor subtype to the pharmacological actions of benzodiazepine site inverse agonists	679
J.E. Kralic, T.K. O'Buckley, R.T. Khisti, C.W. Hodge, G.E. Homanics, A.L. Morrow	$GABA_A$ receptor alpha-1 subunit deletion alters receptor subtype assembly, pharmacological and behavioral responses to benzodiazepines and zolpidem	685
A.J. Boileau, R. Baur, L.M. Sharkey, E. Sigel, C. Czajkowski	The relative amount of cRNA coding for γ2 subunits affects stimulation by benzodiazepines in $GABA_A$ receptors expressed in *Xenopus* oocytes	695
M. Gulinello, Q.H. Gong, S.S. Smith	Progesterone withdrawal increases the α4 subunit of the $GABA_A$ receptor in male rats in association with anxiety and altered pharmacology — a comparison with female rats	701
J.H. Ives, D.L. Drewery, C.L. Thompson	Neuronal activity and its influence on developmentally regulated $GABA_A$ receptor expression in cultured mouse cerebellar granule cells	715
A. Semyanov, D.M. Kullmann	Relative picrotoxin insensitivity distinguishes ionotropic GABA receptor-mediated IPSCs in hippocampal interneurons	726
M.J. Wall	Furosemide reveals heterogeneous $GABA_A$ receptor expression at adult rat Golgi cell to granule cell synapses	737
A. Guyon, L. Cathala, D. Paupardin-Tritsch, D. Eugene	Furosemide modulation of $GABA_A$ receptors in dopaminergic neurones of the rat substantia nigra	750
M.V. Kopanitsa, L.M. Yakubovska, O.P. Rudenko, O.A. Krishtal	Modulation of $GABA_A$ receptor-mediated currents by benzophenone derivatives in isolated rat Purkinje neurones	764
R.F. Halliwell, J. Su, A. Demuro, A. Martinez-Torres, R. Miledi	Characterization of the interaction between a novel convulsant agent, *norbiphen*, and $GABA_A$ and other ligand-gated ion channels	778
J.H. Ye, L. Tao, L. Zhu, K. Krnjević, J.J. McArdle	Decay of ethanol-induced suppression of glycine-activated current of ventral tegmental area neurons	788

NUMBER 5

M.P. Johnson, M. Chamberlain	Modulation of stress-induced and stimulated hyperprolactinemia with the group II metabotropic glutamate receptor selective agonist, LY379268	799

X. Fan, J. Zhang, X. Zhang, W. Yue, L. Ma	Acute and chronic morphine treatments and morphine withdrawal differentially regulate GRK2 and GRK5 gene expression in rat brain	809
N.F. Nichols, M.G. Cimini, J.V. Haas, B.A. Staton, J. Tedroff, K.A. Svensson	PNU-96391A (OSU6162) antagonizes the development of behavioral sensitization induced by dopamine agonists in a rat model for Parkinson's Disease	817
L. Bert, S. Parrot, F. Robert, C. Desvignes, L. Denoroy, M.-F. Suaud-Chagny, B. Renaud	In vivo temporal sequence of rat striatal glutamate, aspartate and dopamine efflux during apomorphine, nomifensine, NMDA and PDC in situ administration	825
F.E. Parkinson, C.J.D. Sinclair, T. Othman, N.J. Haughey, J.D. Geiger	Differences between rat primary cortical neurons and astrocytes in purine release evoked by ischemic conditions	836
I. Jacobs, D.J. Anderson, C.S. Surowy, P.S. Puttfarcken	Differential regulation of nicotinic receptor-mediated neurotransmitter release following chronic (-)-nicotine administration	847
A. Castañé, E. Valjent, C. Ledent, M. Parmentier, R. Maldonado, O. Valverde	Lack of CB1 cannabinoid receptors modifies nicotine behavioural responses, but not nicotine abstinence	857
N. Morioka, A. Inoue, T. Hanada, K. Kumagai, K. Takeda, K. Ikoma, I. Hide, Y. Tamura, H. Shiomi, T. Dohi, Y. Nakata	Nitric oxide synergistically potentiates interleukin-1β-induced increase of cyclooxygenase-2 mRNA levels, resulting in the facilitation of substance P release from primary afferent neurons: involvement of cGMP-independent mechanisms	868
E. Rodríguez-Martín, M.J. Casarejos, S. Canals, S. de Bernardo, M.A. Mena	Thiolic antioxidants protect from nitric oxide-induced toxicity in fetal midbrain cultures	877
S.H.H. Chan, L.-L. Wang, C.-C. Ou, J.Y.H. Chan	Contribution of peroxynitrite to fatal cardiovascular depression induced by overproduction of nitric oxide in rostral ventrolateral medulla of the rat	889
A. Vasilaki, M. Mouratidou, S. Schulz, K. Thermos	Somatostatin mediates nitric oxide production by activating sst_2 receptors in the rat retina	899
Q. Yang, Z.-Z. Wu, X. Li, Z.-W. Li, J.-B. Wei, Q.-S. Hu	Modulation by oxytocin of ATP-activated currents in rat dorsal root ganglion neurons	910
V. Granados-Soto, C.F. Argüelles, M.I. Ortiz	The peripheral antinociceptive effect of resveratrol is associated with activation of potassium channels	917

NUMBER 6

E. Costa, J. Auta, D.R. Grayson, K. Matsumoto, G.D. Pappas, X. Zhang, A. Guidotti	$GABA_A$ receptors and benzodiazepines: a role for dendritic resident subunit mRNAs	925
M.E. Wilkins, T.G. Smart	Redox modulation of $GABA_A$ receptors obscured by Zn^{2+} complexation	938
F.C. Colpaert, J.P. Tarayre, W. Koek, P.J. Pauwels, L. Bardin, X.-J. Xu, Z. Wiesenfeld-Hallin, C. Cosi, E. Carilla-Durand, M.B. Assié, B. Vacher	Large-amplitude 5-HT_{1A} receptor activation: a new mechanism of profound, central analgesia	945
D.A. Johnson, S.E. Gartside, C.D. Ingram	5-HT_{1A} receptor-mediated autoinhibition does not function at physiological firing rates: evidence from in vitro electrophysiological from studies in the rat dorsal raphe nucleus	959
D.J. Moore, J.K. Chambers, P.R. Murdock, P.C. Emson	Human Ntera-2/D1 neuronal progenitor cells endogenously express a functional $P2Y_1$ receptor	966
D.R. Thakker, K.M. Standifer	Induction of G protein-coupled receptor kinases 2 and 3 contributes to the cross-talk between μ and ORL1 receptors following prolonged agonist exposure	979
T. Bartsch, S. Akerman, P.J. Goadsby	The ORL-1 (NOP_1) receptor ligand nociceptin/orphanin FQ (N/OFQ) inhibits neurogenic dural vasodilatation in the rat	991
M. Weinstock, E. Gorodetsky, R.H. Wang, A. Gross, O. Weinreb, M.B.H. Youdim	Limited potentiation of blood pressure response to oral tyramine by brain-selective monoamine oxidase A-B inhibitor, TV-3326 in conscious rabbits	999
I.E. Blasig, K. Mertsch, R.F. Haseloff	Nitronyl nitroxides, a novel group of protective agents against oxidative stress in endothelial cells forming the blood−brain barrier	1006
G. Chidlow, K.-G. Schmidt, J.P.M. Wood, J. Melena, N.N. Osborne	α-lipoic acid protects the retina against ischemia-reperfusion	1015
K. Mori, E. Ozaki, B. Zhang, L. Yang, A. Yokoyama, I. Takeda, N. Maeda, M. Sakanaka, J. Tanaka	Effects of norepinephrine on rat cultured microglial cells that express α1, & α2, β1 and β2 adrenergic receptors	1026
A. Basta-Kaim, B. Budziszewska, L. Jaworska-Feil, M. Tetich, M. Leśkiewicz, M. Kubera, W. Lasoń	Chlorpromazine inhibits the glucocorticoid receptor-mediated gene transcription in a calcium-dependent manner	1035
A. Bradaïa, J. Trouslard	Nicotinic receptors regulate the release of glycine onto lamina X neurones of the rat spinal cord	1044

NUMBER 7

A.D. Wickenden	Potassium channels as anti-epileptic drug targets	1055
V. de Novellis, I. Marabese, R. Uliano, E. Palazzo, A. Scafuro, F. sca Rossi, S. Maione	Type I and II metabotropic glutamate receptors modulate periaqueductal grey glycine release: interaction between mGlu2/3 and A1 adenosine receptors	1061
N.Z. Gerges, A.M. Aleisa, A.A. Alhaider, K.A. Alkadhi	Reduction of elevated arterial blood pressure in obese Zucker rats by inhibition of ganglionic long-term poteniation	1070
K.A. Moore, H. Baba, C.J. Woolf	Gabapentin — Actions on adult superficial dorsal horn neurons	1077
K.K. Borowicz, M. Zadrozniak, S.J. Czuczwar	Low-affinity kainate receptor-mediated events reduce the protective activity of phenobarbital and diphenylhydantoin against maximal electroshock in mice	1082
G. Maksay, T. Bíró	Dual cooperative allosteric modulation of binding to ionotropic glycine receptors	1087
G. Porras, V. Di Matteo, P. De Deurwaerdère, E. Esposito, U. Spampinato	Central serotonin$_4$ receptors selectively regulate the impulse-dependent exocytosis of dopamine in the rat striatum: in vivo studies with morphine, amphetamine and cocaine	1099
J.P.M. Finberg, M.B.H. Youdim	Pharmacological properties of the anti-Parkinson drug rasagiline; modification of endogenous brain amines, reserpine reversal, serotonergic and dopaminergic behaviours	1110
R. Klink, M. Robichaud, G. Debonnel	Gender and gonadal status modulation of dorsal raphe nucleus serotonergic neurons. Part I: Effects of gender and pregnancy	1119
R. Klink, M. Robichaud, G. Debonnel	Gender and gonadal status modulation of dorsal raphe nucleus serotonergic neurons. Part II. Regulatory mechanisms	1129
M. Cecchi, H. Khoshbouei, D.A. Morilak	Modulatory effects of norepinephrine, acting on alpha1 receptors in the central nucleus of the amygdala, on behavioral and neuroendocrine responses to acute immobilization stress	1139
X. Miró, S. Pérez-Torres, F. Artigas, P. Puigdomènech, J.M. Palacios, G. Mengod	Regulation of cAMP phosphodiesterase mRNAs expression in rat brain by acute and chronic fluoxetine treatment. An in situ hybridization study	1148
P. De Sarno, X. Li, R.S. Jope	Regulation of Akt and glycogen synthase kinase-3ß phosphorylation by sodium valproate and lithium	1158
T.J. Sajdyk, D.A. Schober, D.R. Gehlert	Neuropeptide Y receptor subtypes in the basolateral nucleus of the amygdala modulate anxiogenic responses in rats	1165
R. Hashimoto, N. Takei, K. Shimazu, L. Christ, B. Lu, D.-M. Chuang	Lithium induces brain-derived neurotrophic factor and activates TrkB in rodent cortical neurons: An essential step for neuroprotection against glutamate excitotoxicity	1173
C. Ghelardini, N. Galeotti, M. Calvani, L. Mosconi, R. Nicolai, A. Bartolini	Acetyl-l-carnitine induces muscarinic antinocieption in mice and rats	1180
J. Ferreira, M.M. Campos, R. Araújo, M. Bader, J.B. Pesquero, J.B. Calixto	The use of kinin B_1 and B_2 receptor knockout mice and selective antagonists to characterize the nociceptive responses caused by kinins at the spinal level	1188

NUMBER 8

S.A. Henry, V. Lehmann-Masten, F. Gasparini, M.A. Geyer, A. Markou	The mGluR5 antagonist MPEP, but not the mGluR2/3 agonist LY314582, augments PCP effects on prepulse inhibition and locomotor activity	1199
P. Popik, M. Wróbel	Morphine conditioned reward is inhibited by MPEP, the mGluR5 antagonist	1210
G. Hotsenpiller, M.E. Wolf	Extracellular glutamate levels in prefrontal cortex during the expression of associative responses to cocaine related stimuli	1218
R. Martinez-Turrillas, D. Frechilla, J. Del Río	Chronic antidepressant treatment increases the membrane expression of AMPA receptors in rat hippocampus	1230
P. Salchner, N. Singewald	Neuranatomical substrates involved in the anxiogenic-like effect of acute fluoxetine treatment	1238
A. Miralles, V.J. Asensio, J.A. García-Sevilla	Acute treatment with the cyclic antidepressant desipramine, but not fluoxetine, increases membrane-associated G protein-coupled receptor kinases 2/3 in rat brain	1249
T.L. Ripley, C.A. Gadd, C. De Felipe, S.P. Hunt, D.N. Stephens	Lack of self-administration and behavioural sensitisation to morphine, but not cocaine, in mice lacking NK1 receptors	1258
Y. Dwivedi, A.K. Agrawal, H.S. Rizavi, G.N. Pandey	Antidepressants reduce phosphoinositide-specific phospholipase C (PI-PLC) activity and the mRNA and protein expression of selective PLC β_1 isozyme in rat brain	1269
S.R. Erdem, C.S. Broxson, A. Erdem, D.S. Spar, R.T. Williams, N. Tümer	The age-related discrepancy in the effect of neuropeptide Y on select catecholamine biosynthetic enzymes in the adrenal medulla and hypothalamus in rats	1280

T. Yagami, K. Ueda, K. Asakura, T. Sakaeda, H. Nakazato, T. Kuroda, S. Hata, G. Sakaguchi, N. Itoh, T. Nakano, Y. Kambayashi, H. Tsuzuki	Gas6 rescues cortical neurons from amyloid β protein-induced apoptosis	1289
K. Yagyu, K. Kitagawa, B. Wu, N.-Y. Zhang, T. Irie, N. Hattori, C. Inagaki	Protective effects of estradiol against amyloid β protein-induced inhibition of neuronal Cl^--ATPase activity	1297
J. Puoliväli, M. Björklund, M. Holmberg, J.A. Ihalainen, M. Scheinin, H. Tanila	Alpha2C-adrenoceptor mediated regulation of cortical EEG arousal	1305
C. Giaroni, G.E. Knight, H.-Z. Ruan, R. Glass, M. Bardini, S. Lecchini, G. Frigo, G. Burnstock	P2 receptors in the murine gastrointestinal tract	1313
P. Song, W. Lie-Cheng, G.-D. Wang, Z. Zhou, Z.-Q. Zhao	Interleukin-2 regulates membrane potentials and calcium channels via μ opioid receptors in rat dorsal root ganglion neurons	1324
G.Y. Sy, V. Bruban, P. Bousquet, J. Feldman	Nitric oxide discriminates the sites and mechanisms of action of centrally acting anti-hypertensive drugs in rabbits	1330
K. Hirani, R.T. Khisti, C.T. Chopde	Behavioral action of ethanol in Porsolt's forced swim test: modulation by 3alpha-hydroxy-5alpha-pregnan-20-one	1339
	Volumes 42 and 43 Contents, Author and Subject Indices	I